# ApexSQL Recover

Version 2019.x

Release Notes and Requirements

## System requirements

| Hardware | Dual Core 2.0 GHz CPU<br>4 GB memory<br>500 MB disk space |
|---|---|
| SQL Server | SQL Server 2005 and higher [1] |
| OS | Windows 7 SP1/Windows Server 2008 R2 SP1 and higher [1] |
| Port | TCP ports 60408 and 65100 on all SQL Server instances and on ApexSQL Recover installed machine |
| Software | .NET Framework 4.7.2 or higher |
| Note | Databases secured with Transparent Data Encryption (TDE) cannot be used as a source for auditing/recovery |
| Permissions and additional requirements | Windows user account with administrative privileges<br>See ApexSQL Recover - Permissions and requirements |

[1] See Supported systems for exact version support

## Supported Software

| Windows version |
|---|

| Windows 7 SP1 & Windows Server 2008 R2 SP1 | Windows Server 2012 | Windows 8.1 & Windows Server 2012 R2 | Windows 10 & Windows Server 2016 | Windows Server 2019 |
|:---:|:---:|:---:|:---:|:---:|
| ✔ | ✔ | ✔ | ✔ | ✔ |

| SQL Server version [3] | | | | | | | | | |
|:---|:---:|:---:|:---:|:---:|:---:|:---:|:---:|:---:|:---:|
| | | | | | | 2017 | | 2019 CTP 3 | |
| | 2005 | 2008 | 2012 | 2014 | 2016 | Windows | Linux [2] | Windows | Linux [2] |
| ApexSQL Recover | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ |

| SQL Server edition [3] | | | | | | |
|:---|:---:|:---:|:---:|:---:|:---:|:---:|
| | | | | Azure SQL Database | | Amazon RDS for SQL Server |
| | Express | Standard | Enterprise | Single Database, Elastic Pool | Managed Instance | |
| ApexSQL Recover | ✔ | ✔ | ✔ | | | |

[2] Tested on Ubuntu 16.04

[3] Including Amazon EC2, Google Compute Engine, and Azure Virtual Machine cloud computing SQL Server instances

# Getting Started

For further information about installation and getting started, please check the Quest Knowledge Base or ApexSQL Getting Started.

# Release Notes [(release history)](#)

| | |
|---|---|
| Release: | 2019.01.1240 |
| Date: | December 18, 2019 |

## Enhancements:

- [SQL Server 2019 support](#)

## Fixes:

- "Arithmetic overflow error" occurs when auditing database in a simple recovery model in specific case

| | |
|---|---|
| Release: | 2018.04.1234 |
| Date: | June 21, 2019 |

## Changes:

- Software Transaction Agreement is added as a new step in the installation wizard and updated in accordance with [https://www.quest.com/legal/sta.aspx](https://www.quest.com/legal/sta.aspx)

| | |
|---|---|
| Release: | 2018.04.1219 |
| Date: | December 27, 2018 |

## Enhancements:

- The Primary Key column value is now included in the operation details pane for each operation
- The application now automatically checks validity of the selected data sources
- 24h format can now be used in the custom filter when Windows regional format settings imply 24-hour format
- Column order can now be changed in grid using drag-and-drop
- Informational message added that TDE encrypted databases cannot be audited
- Information message added that SQL Server instances hosted on Linux OS cannot be audited

## Fixes:

- Aborted transactions are not audited
- Field value grid filter does not affect audited result when applied

- All conditions aside from the first one in the list are not applied in the field values filter if multiple conditions are defined
- The application doesn't automatically connect to the audited database when undo/redo script is connected
- The Find next option does not cycle through the results
- "Failed to load project" error is encountered when application is restarted with "start as admin"
- Default value for the custom filter is not set to current day
- The Ctrl+A shortcut does not work on results audited to grid
- It is not possible to select last row when undo/redo script is opened via integrated editor
- The sa login is locked out when wrong password is provided for the sa account
- "Failed to load project" error is encountered when starting application with insufficient privileges
- Find panel is not initiated via Ctrl+F shortcut
- The same SQL Server instance can be added multiple times in the activation panel
- The displayed count of total rows found when recovering deleted data to a script file does not match the actual count of deleted rows
- "Object reference not set to an instance of the object" error is encountered when performing recovery from a drop operation on the database for the first time

## Changes:

- The application now requires Microsoft .NET Framework 4.7.2

| Release: | 2018.03.1211 |
| --- | --- |
| Date: | October 18, 2018 |

## Enhancements:

- SQL Server 2019 CTP 2.0 support
- New error handling and send logs functionality
- Improved application installer with a dark theme
- New application icon
- The "Make new folder" button has been added to all browse for folder dialogs

## Fixes:

- Date/time filter is not presented in the regional format if Spanish language and regional settings are used
- "Object reference not set to an instance of an object" error is encountered when data recovery is performed into a new database in a specific case

| Release: | 2018.02.1198 |
| --- | --- |
| Date: | November 28, 2017 |

## Enhancements:

- [High DPI and 4K resolution support](#)
- [Applied concepts of Visual Language Dictionary for Visual Studio for iconography, imagery, colors, menus, fonts, formatting and other GUI elements](#)
- Log reading is now up to 20,000% faster for all databases that contain over 1,000 SQL tables

## Fixes:

- Application stops responding when double-clicking any of the main ribbon bar action icons
- Both 2017 and 2018 versions are shown in the control panel after update from application version 2017 to 2018
- The "Unexpected error" is encountered when clicking on Truncated data in the recovery wizard in specific case
- The "Object reference not set to an instance of an object" error is encountered during recovery of dropped data in a specific case
- The Show renewal option always resets its state to checked after Options dialog is closed
- The Get updates dialog is not closed via Esc key
- The information on application version used to generate the script is incorrect in the commentary of the generated script

## Changes:

- New light, blue and dark themes are now available
- The application now requires Microsoft .NET Framework 4.7.1

| Release: | 2018.01.1191 |
| --- | --- |
| Date: | Oct 26, 2017 |

## Enhancements:

- Transaction log files and backups can now be read, analyzed and audited
- Undo and redo script can now be created to rollback or replay DML and DDL changes
- Auditing results can now be loaded and filtered in grid for forensic recovery and analysis

## Fixes:

- Installer dialog elements will be incorrectly positioned in 4K screen resolution
- The "A generic error occurred in GDI+" error is encountered when undo/redo script which includes text value with over 10,000 characters is opened in built-in editor

- The main ribbon button tooltips are not descriptive for the particular option
- About form doesn't show full license information on used/remaining licenses
- Release notes link in the upgrade dialog does not lead to the release notes page
- Options can be selected when clicking on the area to the right of each button in Options dialog
- Options are not selected in the correct order when using the Tab button to navigate through them in the Options dialog
- Right mouse button click selects navigation buttons in the grid
- Excessive empty columns are shown in Field values filter dialog
- The SQL Server authentication fields are disabled when windows authentication is selected
- The "last X hours" filter does not properly filter recovery output

## Changes:

- The Internal editor is renamed to Integrated editor